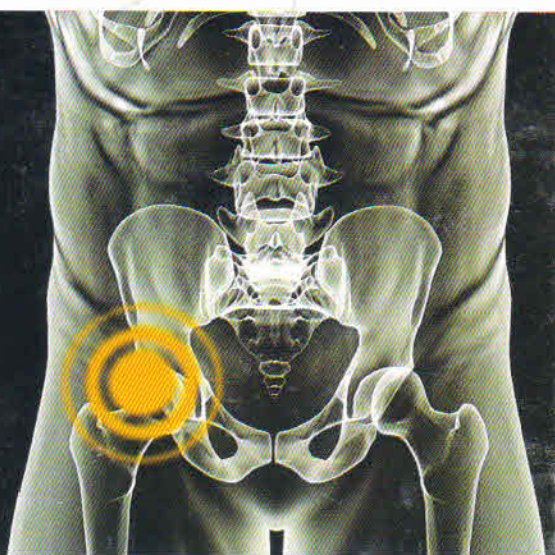




**SMPL**<sup>®</sup>  
SMIT MEDIMED PVT. LTD.



# Total Hip Replacement System

Your Reliable Partner for Orthopaedic Needs...





A Total  
approach to  
Total  
Joint Replacement





**SMPL®** SMIT MEDIMED PVT. LTD.

We your reliable partner for your Orthopaedic Needs has a high reputation for quality, performance and Value. Orthopaedic surgeons & professionals can rely on our products, and most of all products are available from a single source, you can simply order us and relax.

We manufacture complete range of Total Hip Replacement System, Total Knee Replacement System, Trauma Implants, Spine Implants, Cervical Implants, Intramedullary Nail System, Surgical Instruments and External Fixators and all other Orthopaedic Implants.

We manufacture implants using high quality raw material as Stainless Steel, Titanium, and CoCr etc, as per the International Standard and are made with total in-house infrastructure, with up-dated State-of-the-art manufacturing processes with latest Technological CNC machinery.

Caution : We request the surgeon/user to verify the suitability of the product in all respects, before usage. Our liability is restricted and we assures for our product and is manufactured as per accepted standards for dimensions and quality of raw material.

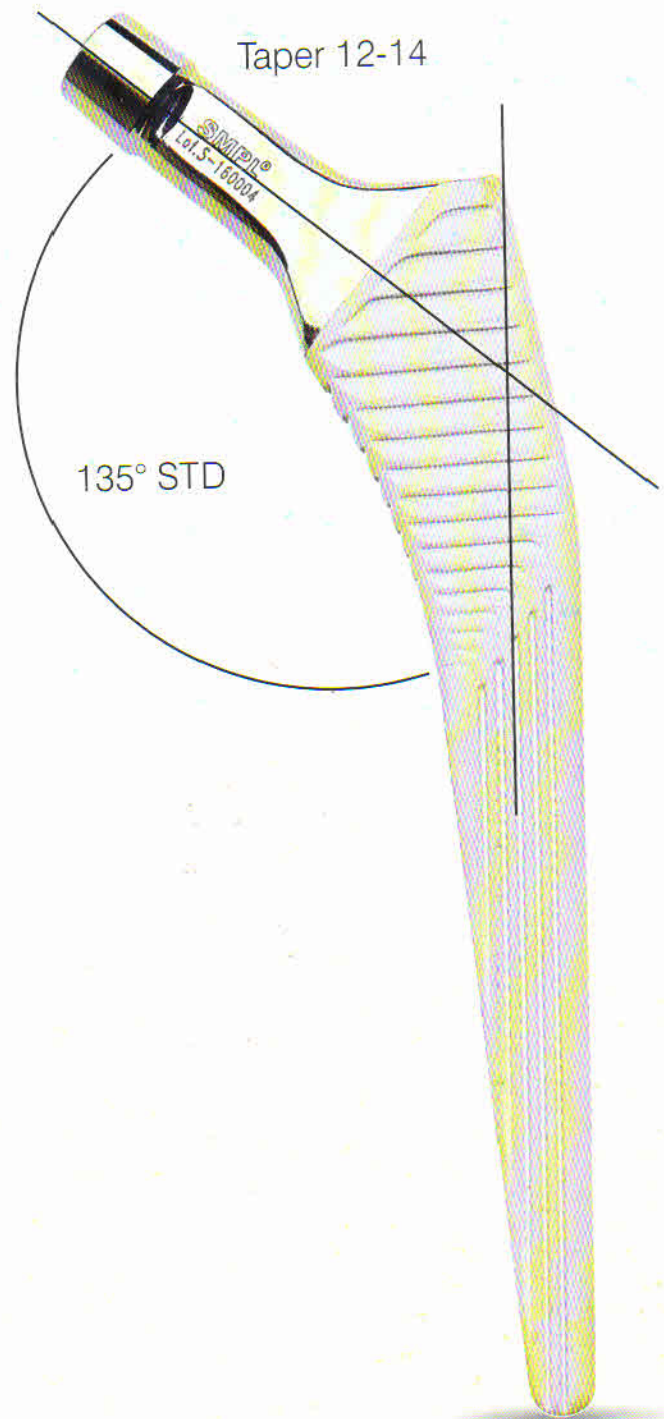
Cat. No. S616 (Stainless Steel)

Cat. No. S605 (Titanium)

## Cementless

### Total Hip Replacement System (HA Coating)

- ◉ Tapered neck geometry and optimized taper increase range of motion
- ◉ Low-profile lateral shoulder design enables easy insertion in minimum invasive incision techniques, especially when using the anterior approach
- ◉ Step geometry converts hoop stresses to compressive loads
- ◉ Vertical/horizontal grooves provide rotational and axial stability
- ◉ Our Stem are Forging and are excellent in high strength and durability and are available in Titanium and Stainless Steel Material.
- ◉ Our Titanium Forging Stem are very low in weight with high strength.
- ◉ Our Stem length and design is as per International Standard.



Dia	Length (mm)
Ø 8	115 mm
Ø 9	130 mm
Ø 10	140 mm
Ø 11	145 mm
Ø 12	150 mm
Ø 13	155 mm
Ø 14	160 mm
Ø 15	165 mm



# VERT<sup>o</sup>X™ Acetabular Cementless Cup

Cat. No. S620 (Titanium)(Porous Coating)  
**VERTEX ACETABULAR CEMENTLESS CUP**

Outer Cup Size	Liner Size	Ball Head Ø
Ø 42	42	28
Ø 44	44	28
Ø 46	46	28
Ø 48	48	32
Ø 50	50	32

Outer Cup Size	Liner Size	Ball Head Ø
Ø 52	52	32
Ø 54	54	36
Ø 56	56	36
Ø 58	58	36
Ø 60	60	36



Cat. No. S617 (Stainless Steel) (HA Coating)  
**VERTEX ACETABULAR CEMENTLESS CUP**

Outer Cup Size	Liner Size	Ball Head Ø
Ø 42	42	28
Ø 44	44	28
Ø 46	46	28
Ø 48	48	32
Ø 50	50	32

Outer Cup Size	Liner Size	Ball Head Ø
Ø 52	52	32
Ø 54	54	36
Ø 56	56	36
Ø 58	58	36
Ø 60	60	36



Cat. No. S619 (Stainless Steel)  
 Cat. No. S612 (Titanium)  
**Cancellous Screw**

Ø 6mm  
 20, 25, 30, 35, 40



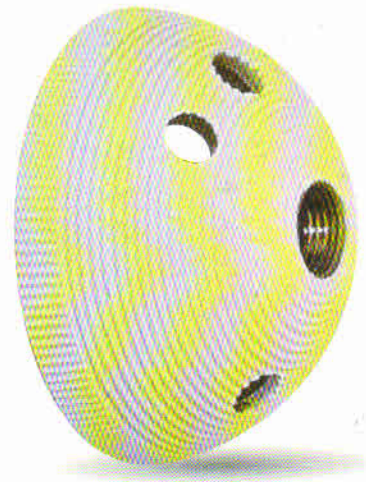
## Crown Cementless Cup

Cat. No. S608

### CROWN CEMENTLESS CUP (Titanium, HA Coating)

- The shell made of forged Ti-alloy has high strength and light specific weight and low elastic modulus. Medical UHMWPE has better abrasive resistance.
- Multi-radius design and longitudinal grooves with taper press-fit make the shell engage tightly the bone with good anti-rotation.
- 20° anti-dislocation insert
- Circle grooves increase interface with bone and enhance pull-out strength.

Outer Cup Size	Line Sizer	Ball Head Ø	Outer Cup Size	Liner Size	Ball Head Ø
Ø 42	37	22	Ø 52	45	32
Ø 44	37	22	Ø 54	49	32
Ø 46	44	28	Ø 56	49	36
Ø 48	44	28	Ø 58	53	36
Ø 50	45	32	Ø 60	53	36

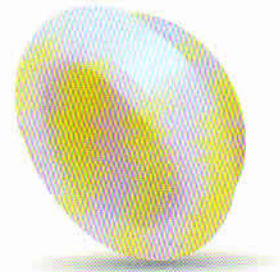


Liner

Cat. No. S613

### Liner for Crown Cementless Cup (Material : UHMWPE)

Liner Size	Ball Head Ø	Liner Size	Ball Head Ø
37	22	49	32
44	28	49	36
45	32	53	36



Cat. No. S618

### Liner for VERT-X™ Acetabular Cementless Cup

Liner Size	Specification	Ball Head Ø	Liner Size	Specification	Ball Head Ø
42	+4 10°	28	52	+4 Neutral	32
44	+4 10°	28	54	+4 Neutral	36
46	+4 10°	28	56	+4 Neutral	36
48	+4 Neutral	32	58	+4 Neutral	36
50	+4 Neutral	32	60	+4 Neutral	36

Cat. No. S622

### Liner for VERT-X™ Acetabular Cementless Cup (Material : XLPE Highly Cross linked Polyethylene)

Liner Size	Specification	Ball Head Ø	Liner Size	Specification	Ball Head Ø
42	+4 10°	28	52	+4 10°	32
44	+4 10°	28	54	+4 10°	36
46	+4 10°	28	56	+4 10°	36
48	+4 10°	32	58	+4 10°	36
50	+4 10°	32	60	+4 10°	36

Cat. No. S623

### (Material : XLPE Highly Cross linked Polyethylene & UHMWPE)





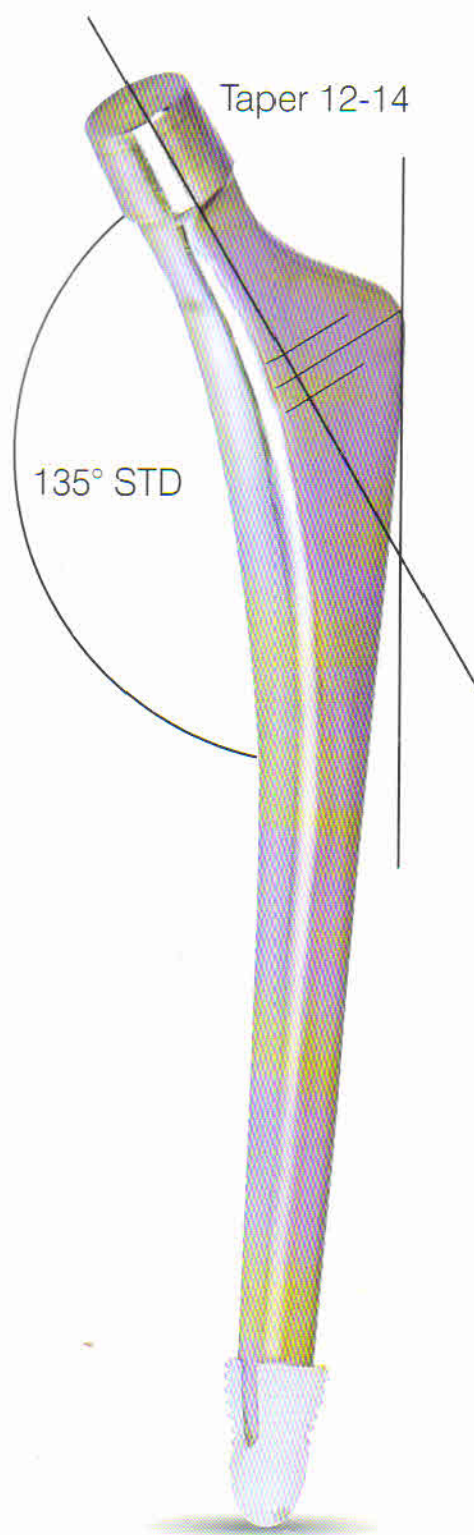
Cat. No. S607  
**CEMENTED STEM**

## **Cemented** Total Hip Replacement System

### Cemented Stem Aqua

- ⊙ Highly polished surface reduces the shear force between the prosthesis and bone cement.
- ⊙ Bipolar taper without collar converts longitudinal shear force to lateral compression load.
- ⊙ Allow for slight sinking and revision surgery.
- ⊙ Smooth prosthesis edges avoid stress concentration and cutting the bone cement.
- ⊙ Match with the third-generation bone cement technique. Patients have longer surviving life and better clinical results.
- ⊙ The Stem is inbuilt Centralizer
- ⊙ The Stem length and design is as per International Standard.

Dia	Length (mm)
Ø 9	130 mm
Ø 10	130 mm
Ø 11	135 mm
Ø 12	140 mm
Ø 13	145 mm
Ø 14	150 mm
Ø 15	155 mm



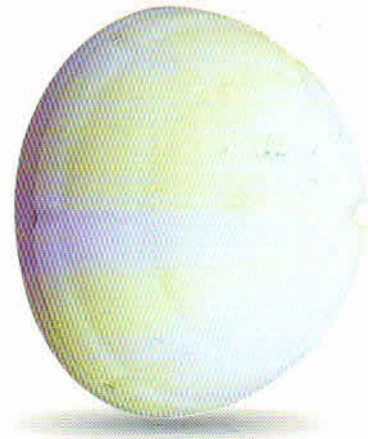
## Cemented Acetabular Cup

Cat. No. S609

### CEMENTED ACETABULAR CUP

- ◉ Angular Groove on the surface, increasing the contact area with bone cement, the inner edge after cutting, increasing the range of motion of the joint, reducing the impingement with the stem
- ◉ 20° anti-dislocation insert
- ◉ Metal ring along the rim will produce radiolucent line and helps locate precisely.

Cup Ø	Head Ø	Cup Ø	Head Ø
42	28	50	28
44	28	52	28
46	28	54	28
48	28	56	28



## Modular Bipolar Cup

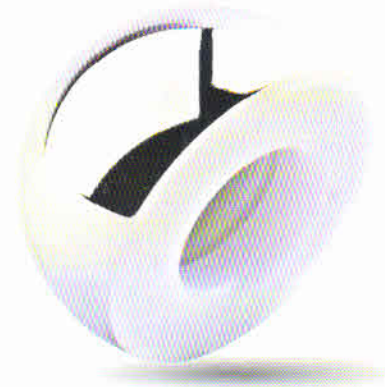
Cat. No. S611

### MODULAR BIPOLAR CUP

(Stainless Steel and Co-Cr-Mo alloy)

- ◉ Bipolar cup is made of Stainless Steel and Co-Cr-Mo alloy with mirror polish, Which reduces friction coefficient to the minimum extent.
- ◉ Locking design: easy to install and avoid head dislocation. Push with the key when revision surgery is needed or the ball head should be changed.
- ◉ Two-center design ensures the hip joint the greatest motion range and the lowest wear.

Cup Ø	Ball Head Ø	Cup Ø	Ball Head Ø
38	22	48	28
40	22	50	28
42	28	52	28
44	28	54	28
46	28		





## Modular Bipolar Cup with Head

Cat. No. S615

### MODULAR BIPOLAR CUP WITH HEAD

Outer Cup Size	Neck Length	Outer Cup Size	Neck Length
Ø 37	-6, -3, 0, 3, 6	Ø 47	-6, -3, 0, 3, 6
Ø 39	-6, -3, 0, 3, 6	Ø 49	-6, -3, 0, 3, 6
Ø 41	-6, -3, 0, 3, 6	Ø 51	-6, -3, 0, 3, 6
Ø 43	-6, -3, 0, 3, 6	Ø 53	-6, -3, 0, 3, 6
Ø 45	-6, -3, 0, 3, 6	Ø 55	-6, -3, 0, 3, 6



## Ball Head

Cat. No. S610

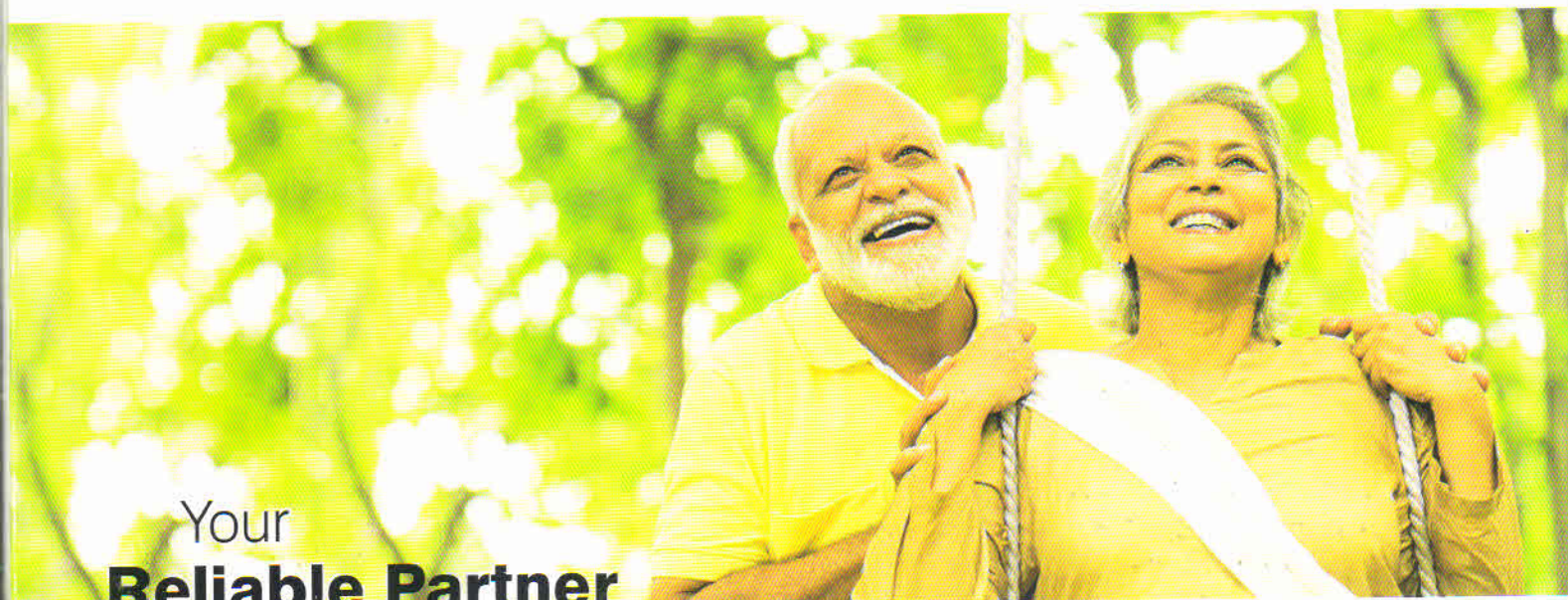
### BALL HEAD

- ⦿ Made of Stainless Steel and Co-Cr-Mo alloy; highly polished surface with extreme low friction coefficient
- ⦿ Highly accurate technology. All Products are tested with three-dimensional measurement
- ⦿ Provide products of specific diameters and tapers according to clinical needs
- ⦿ Tapers (12/14) and over 5 sizes are available



T BALL HEAD Ø	NECK LENGTH
22	0, 3, 6
28	-6, -3, 0, 3, 6
32	-6, -3, 0, 3, 6
36	-6, -3, 0, 3, 6





Your  
**Reliable Partner**  
for  
**Orthopaedic**  
Needs...





**SMPL<sup>®</sup>**

**SMIT MEDIMED PVT. LTD.**

Plot No.10, Phase-1, B/h. Prashant Eng., G.I.D.C. Vatva,  
Ahmedabad-382 445. (Gujarat) INDIA.

Phone : +91-79-25896751, 25896752 Fax : +91-79-25894150

E-mail : [sales@smitmedimed.com](mailto:sales@smitmedimed.com), [info@smitmedimed.com](mailto:info@smitmedimed.com)

Visit us : [www.smitmedimed.com](http://www.smitmedimed.com)